IN THE CLAIMS:

Please amend the claims as follows:

Claim 1 (Currently Amended): A rock drilling rig comprising

a carrier,

at least one feeding beam,

a rock drilling apparatus movable in relation to the feeding beam and having a percussion

device,

one or more sensors arranged to the rock drilling apparatus to measure monitor the

operation of the rock drilling apparatus,

at least one first control unit arranged on the carrier of the rock drilling rig to control the

operation of the rock drilling apparatus on the basis of measuring information received from the

sensors,

a second control unit arranged to the rock drilling apparatus,

a data communications link between the first control unit and the second control unit for

transmitting information between the control units,

the sensors monitoring the operation of the rock drilling apparatus are connected to

transmit measuring information to the second control unit,

the second control unit comprises a memory unit for storing basic settings for the rock

drilling apparatus and a processing unit for calculating parameters describing the operating state

of the rock drilling apparatus on the basis of said basic settings and measuring information, and

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the first control unit is arranged to control the operation of the rock drilling apparatus on

the basis of the parameters received from the second control unit and instructions given to the

first control unit.

Claim 2 (Original): A rock drilling rig as claimed in claim 1, wherein

the second control unit is arranged inside the body of the rock drilling apparatus

and at least some of the sensors are integrated as part of the second control unit.

Claim 3 (Original): A rock drilling rig as claimed in claim 1, wherein

the first data communications link between the first control unit and the second control

unit is a CAN bus.

Claim 4 (Currently Amended): A rock breaking machine comprising a body,

a percussion device arranged inside the body to generate impact pulses to a tool

connectable to the rock breaking machine,

one or more sensors arranged to measure monitor the operation of the rock breaking

machine,

a control unit,

said sensors are arranged to transmit measuring information to the control unit,

the control unit comprises a memory unit for storing basic settings for the rock breaking

machine and further a processing unit that is, during operation, arranged to form parameters

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describing the operating state of the rock breaking machine on the basis of the basic settings and

measuring information, and

the control unit comprises a connection to a data communications link that enables

communication between the control unit and at least one unit external to the rock breaking

machine for controlling the operation of the rock breaking machine so as to achieve the desired

operating state of the rock breaking machine.

Claim 5 (Currently Amended): A rock breaking machine as claimed in claim 4, wherein

the control unit is arranged inside the body of the rock breaking machine

and at least some of the sensors are integrated as part of the control unit.